

RECEIVED

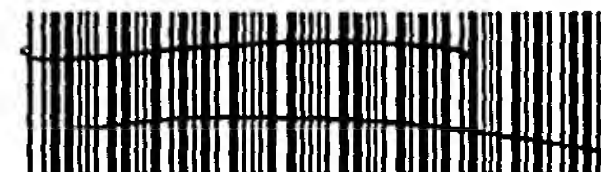
JUN 13 2002

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P#17



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/560,494B

DATE: 06/03/2002

TIME: 12:37:00

Input Set : A:\102286-413.ST25.txt

Output Set: N:\CRF3\06032002\I560494B.raw

5 <110> APPLICANT: Jakobsen, Brent Karsten  
6 Gao, George Fu  
7 Gerth, Ulrich Conrad  
8 Sewell, Andrew Kelvin  
10 <120> TITLE OF INVENTION: CD8 AS AN INHIBITOR OF THE CELLULAR IMMUNE SYSTEM  
12 <130> FILE REFERENCE: 102286.413  
14 <140> CURRENT APPLICATION NUMBER: US 09/560,494B  
15 <141> CURRENT FILING DATE: 2000-04-28  
17 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03235  
18 <151> PRIOR FILING DATE: 1998-10-28  
20 <150> PRIOR APPLICATION NUMBER: GB 9722779.7  
21 <151> PRIOR FILING DATE: 1997-10-28  
23 <160> NUMBER OF SEQ ID NOS: 28  
25 <170> SOFTWARE: PatentIn version 3.1  
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30 <213> ORGANISM: Artificial Sequence  
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33 <223> OTHER INFORMATION: Synthetic DNA primer  
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52 <213> ORGANISM: Artificial Sequence  
54 <220> FEATURE:  
55 <223> OTHER INFORMATION: Synthetic DNA primer  
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61 <211> LENGTH: 54  
62 <212> TYPE: DNA  
63 <213> ORGANISM: Artificial Sequence  
65 <220> FEATURE:

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66 <223> OTHER INFORMATION: Synthetic DNA primer  
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 69 cgcgcatccc tatgcgcccc ccgctggccg gctcgcctct gggcgcaggg acag 54  
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 72 <211> LENGTH: 60  
 73 <212> TYPE: DNA  
 74 <213> ORGANISM: Artificial Sequence  
 76 <220> FEATURE:  
 77 <223> OTHER INFORMATION: Synthetic DNA primer  
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 84 <211> LENGTH: 59  
 85 <212> TYPE: DNA  
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 88 <220> FEATURE:  
 89 <223> OTHER INFORMATION: Synthetic DNA primer  
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 99 <220> FEATURE:  
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 106 <210> SEQ ID NO: 8  
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 111 <220> FEATURE:  
 112 <223> OTHER INFORMATION: Synthetic DNA primer  
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 115 gtggcaagct tggatcctat ggcgtcgtgg tgggcttcgc tg 42  
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 120 <213> ORGANISM: Artificial Sequence  
 122 <220> FEATURE:  
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 129 <211> LENGTH: 35  
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144 <220> FEATURE:
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151 <211> LENGTH: 9
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: HLA-A2 Pol-restricted CTL line specific peptide
158 <400> SEQUENCE: 12
159 Ile Leu Lys Glu Pro Val His Gly Val
160 1 5
163 <210> SEQ ID NO: 13
164 <211> LENGTH: 9
165 <212> TYPE: PRT
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: HLA-A2 Pol-restricted CTL line specific peptide
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172 Ser Leu Tyr Asn Thr Val Ala Thr Leu
173 1 5
176 <210> SEQ ID NO: 14
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178 <212> TYPE: PRT
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: HLA-A2 Pol-restricted CTL line specific peptide
184 <400> SEQUENCE: 14
185 Val Ile Tyr Gln Tyr Met Asp Asp Leu
186 1 5
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192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Synthetic DNA primer
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200 <210> SEQ ID NO: 16
201 <211> LENGTH: 42
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence

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205 <220> FEATURE:
206 <223> OTHER INFORMATION: Synthetic DNA primer
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214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Synthetic DNA primer
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220 gggggaagct taatgccatt cgattttctg agcttcaaaa atatcggtca gaccaccacc 60
221 ggatcctggc gtcgtggtgg gcttcgctgg caggaagac          99
223 <210> SEQ ID NO: 18
224 <211> LENGTH: 18
225 <212> TYPE: PRT
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: CD8 alpha polypeptide
231 <400> SEQUENCE: 18
232 Gly Ser Gly Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu
233 1          5          10          15
234 Trp His
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239 <211> LENGTH: 63
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Synthetic DNA primer
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248 gcc          63
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253 <213> ORGANISM: Artificial Sequence
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256 <223> OTHER INFORMATION: synthetic DNA primer
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261 <210> SEQ ID NO: 21
262 <211> LENGTH: 9
263 <212> TYPE: PRT
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: HLA-A2-flu
269 <400> SEQUENCE: 21
270 Gly Ile Leu Gly Phe Val Phe Thr Leu
271 1          5

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Input Set : A:\102286-413.ST25.txt

Output Set: N:\CRF3\06032002\I560494B.raw

274 <210> SEQ ID NO: 22  
 275 <211> LENGTH: 9  
 276 <212> TYPE: PRT  
 277 <213> ORGANISM: Artificial Sequence  
 279 <220> FEATURE:  
 280 <223> OTHER INFORMATION: peptide epitope  
 282 <400> SEQUENCE: 22

283 Lys Ala Val Tyr Asn Phe Ala Thr Cys

284 1 5

287 <210> SEQ ID NO: 23

288 <211> LENGTH: 366

289 <212> TYPE: DNA

290 <213> ORGANISM: Artificial Sequence

292 <220> FEATURE:

293 <223> OTHER INFORMATION: synthetic DNA construct encoding part of the  
 294 extracellular domain of human CD8 alpha

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297 <222> LOCATION: (1)...(366)

W--> 299 <400> 23

300 atg agt caa ttt cgt gta tca ccg ctg gat cgg acc tgg aac ctg ggc 48

301 Met Ser Gln Phe Arg Val Ser Pro Leu Asp Arg Thr Trp Asn Leu Gly

302 1 5 10 15

304 gag aca gtg gag ctg aag tgc cag gtg ctg ctg tcc aac ccg acg tcg 96

305 Glu Thr Val Glu Leu Lys Cys Gln Val Leu Leu Ser Asn Pro Thr Ser

306 20 25 30

308 ggc tgc tcg tgg ctc ttc cag ccg cgc ggc gcc gcc gcc agt ccc acc 144

309 Gly Cys Ser Trp Leu Phe Gln Pro Arg Gly Ala Ala Ala Ser Pro Thr

310 35 40 45

312 ttc ctc cta tac ctc tcc caa aac aag ccc aag gcg gcc gag ggg ctg 192

313 Phe Leu Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu

314 50 55 60

316 gac acc cag cgg ttc tcg ggc aag agg ttg ggg gac acc ttc gtc ctc 240

317 Asp Thr Gln Arg Phe Ser Gly Lys Arg Leu Gly Asp Thr Phe Val Leu

318 65 70 75 80

320 acc ctg agc gac ttc cgc cga gag aac gag ggc tac tat ttc tgc tcg 288

321 Thr Leu Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser

322 85 90 95

324 gcc ctg agc aac tcc atc atg tac ttc agc cac ttc gtg ccg gtc ttc 336

325 Ala Leu Ser Asn Ser Ile Met Tyr Phe Ser His Phe Val Pro Val Phe

326 100 105 110

328 ctg cca gcg aag ccc acc acg acg cca tag 366

329 Leu Pro Ala Lys Pro Thr Thr Thr Pro \*

330 115 120

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334 <211> LENGTH: 121

335 <212> TYPE: PRT

336 <213> ORGANISM: Artificial Sequence

338 <220> FEATURE:

339 <223> OTHER INFORMATION: an amino acid construct encoding part of the



VERIFICATION SUMMARY

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Input Set : A:\102286-413.ST25.txt

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L:373 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:25